

#### ABSTRACT OF THE DISCLOSURE

The present invention relates to a method of producing young moss seedlings preferable as greenery plants, by which a plenty of young moss seedlings can be produced with high speed under artificially controlled atmosphere. In nutrient solution, young moss seedlings are grown with regeneration buds 2 bred around gametophytes 1, at a temperature of 0 to 60°C, with photosynthetic active photon flux density (PPFD) of not greater than 200 ( $\mu\text{mol m}^{-2}\text{s}^{-1}$ ), fertilizer concentration (mS/cm) of 0 to 1.0, and by repeating light periods and dark periods in cycles of 24 hours or less duration, aerating and stirring, and controlling growth of young moss seedlings.